Wide Bandgap Semiconductors for Sustainable Power Electronics

Carl-Mikael Zetterling (bellman@kth.se)

The selection of wide bandgap (WBG) semiconductor materials such as SiC or GaN instead of silicon will have a large impact on energy and resource efficiency. I will explain how commercial devices in WBG materials can reduce the energy losses by 50 % in electric power conversion in industry and society. I will also introduce the IEA 4E PECTA effort supported by Energimyndigheten to promote WBG materials.

[www.kth.se/pecta](http://www.kth.se/pecta)